We Claim:

- 1. A high strength, heat resistant alloy for exhaust valves with good overaging-resistance, which has an alloy composition essentially consisting of, by weight %, C: 0.01-0.2%, Si: up to 1.0%, Mn: up to 1.0%, P: up to 0.02%, S: up to 0.01%, Ni: 30-62%, Cr: 13-20%, W: 0.01-3.00%, Mo: up to 2.0%, provided that Mo+0.5W: 1.0-2.5%, Al: 0.7% or higher and less than 1.6%, Ti: 1.5-3.0%, Nb: 0.5-1.5%, B: 0.001-0.010%, provided that [%Ti]/[%Al]: 1.6 or more to less than 2.0, and the balance of Fe and inevitable impurities.
- 2. The heat resistant alloy for exhaust valves according to claim 1, wherein the alloy further contains at least one of the group consisting of Mg: 0.001-0.030%, Ca: 0.001-0.030% and Zr: 0.001-0.100%.
- 3. The heat resistant alloy for exhaust valves according to claim 1, wherein the alloy further contains Cu: up to 2.0%.
- 4. The heat resistant alloy for exhaust valves according to claim 1, wherein the alloy further contains V: 0.05-1.00%.

- 5. The heat resistant alloy for exhaust valves according to claim 1, wherein the alloy further contains Cu: up to 2.0% and V: 0.05-1.00%.
- 6. The heat resistant alloy for exhaust valves according to claim 2, wherein the alloy further contains Cu: up to 2.0%.
- 7. The heat resistant alloy for exhaust valves according to claim 2, wherein the alloy further contains $V\colon 0.05\text{--}1.00$.
- 8. The heat resistant alloy for exhaust valves according to claim 2, wherein the alloy further contains Cu: up to 2.0% and V: 0.05-1.00.
- 9. The heat resistant alloy for exhaust valves according to one of claims 1 to 8, wherein the alloy has a composition in which a portion of Ni is replaced with Co in an amount of up to 5% of the alloy.
- 10. The heat resistant alloy for exhaust valves according to one of claims 1 to 8, wherein the alloy has a composition in which whole or a portion of Nb is replaced with Ta.

11. The heat resistant alloy for exhaust valves according to one of claims 1 to 8, wherein the alloy has a composition in which a portion of Ni is replaced with Co in an amount of up to 5% of the alloy and whole or a portion of Nb is replaced with Ta.